Abstract of the Disclosure

A laminated dielectric block (3) is formed by laminating dielectric sheets (31) each having a conductive film formed on its one surface so as to constitute at least one filter (2). A radiation element (1) is provided so as to fix to the laminating dielectric block, wherein one electrode of the filter is electrically connected to the radiation element. The other electrode (22) of the filter is connected to a feeding terminal electrode (4) provided mounting face B (a face opposing to a circuit board) of the laminated dielectric block through a via-contact (33) and a wiring (34), not being exposed to the side face. As a result, an antenna with built-in filter of the structure where even if it is mounted on a circuit board, interference between an electronic circuit on the circuit board and the feeding terminal electrode of the antenna is prevented to improve the isolation characteristic and transmitting or receiving characteristic.